Amendments to the Claims:

Claim Listing:

- 1. Cancelled.
- 2. Cancelled.
- 3. Cancelled.
- 4. (Currently amended) A method <u>for distilling a raw material liquid containing</u> (meth)acrylic acid substantially free from azeotropic solvents, which comprises;

subjecting gas phase catalytic oxidation reaction of propylene and/or acrolein with a molecular oxygen-containing gas or by gas phase catalytic oxidation reaction of at least one selected from the group consisting of isobutylene, t-butyl alcohol and methacrolein with the molecular oxygen-containing gas to form a mixed gas;

feeding the resulting mixed gas to a (meth)acrylic acid collection column wherein materials containing (meth)acrylic acid are collected with a collection agent;

feeding to a distillation column the raw material liquid containing (meth)acrylic acid substantially free from azeotropic solvents which temperature is substantially equal to that of an entrance place in the column; and

distilling the raw material liquid in the distillation columnaccording to claim 1, wherein a temperature of the raw material liquid is adjusted by heating or cooling.

5. (currently amended) A method <u>for distilling a raw material liquid containing</u> (meth)acrylic acid substantially free from azeotropic solvents, which comprises;

subjecting gas phase catalytic oxidation reaction of propylene and/or acrolein with a molecular oxygen-containing gas or by gas phase catalytic oxidation reaction of at least one selected from the group consisting of isobutylene, t-butyl alcohol and methacrolein with the molecular oxygen-containing gas to form a mixed gas;

feeding the resulting mixed gas to a (meth)acrylic acid collection column wherein materials containing (meth)acrylic acid are collected with a collection agent;

feeding to a distillation column the raw material liquid containing (meth)acrylic acid substantially free from azeotropic solvents which temperature is substantially equal to that of an entrance place in the column; and

distilling the raw material liquid in the distillation columnaccording to claim 1,

wherein a temperature of the raw material liquid to be fed (T0) and a temperature of the entrance place in the <u>distillation</u> column (T1) fulfill the following formula (1a):

$$0^{\circ} C \le |T0-T1| \le 30^{\circ} C$$
 (1a).

6. (currently amended) A method according to claim-1.5, wherein a-the temperature of the raw material liquid to be fed (T0) and a-the temperature of the entrance place in the distillation column (T1) fulfill the following formula (1b):

$$0^{\circ} C \le |T0-T1| \le 20^{\circ} C$$
 (1b).

7. (currently amended) A method according to claim 15, wherein a-the temperature of the raw material liquid to be fed (T0) and a-the temperature of the entrance place in the distillation column (T1) fulfill the following formula (1c):

$$0^{\circ} C \le |T0-T1| \le 10^{\circ} C$$
 (1c).

8. (currently amended) A method <u>for distilling a raw material liquid containing</u> (meth)acrylic acid substantially free from azeotropic solvents, which comprises;

subjecting gas phase catalytic oxidation reaction of propylene and/or acrolein with a molecular oxygen-containing gas or by gas phase catalytic oxidation reaction of at least one selected from the group consisting of isobutylene, t-butyl alcohol and methacrolein with the molecular oxygen-containing gas to form a mixed gas;

feeding the resulting mixed gas to a (meth)acrylic acid collection column wherein materials containing (meth)acrylic acid are collected with a collection agent;

feeding to a distillation column the raw material liquid containing (meth)acrylic acid substantially free from azeotropic solvents which temperature is substantially equal to that of an entrance place in the column; and

distilling the raw material liquid in the distillation columnaccording to claim 1, wherein a fluctuation range ($\Delta T0$) of temperature (T0) of the raw material liquid is within 10° C.

9. (original) A method according to claim 1, wherein a fluctuation range ($\Delta T0$) of temperature (T0) of the raw material liquid is within 5° C.

- 10. (currently amended) A method according to claim $\frac{18}{2}$, wherein $\frac{18}{2}$ equation range ($\Delta T0$) of temperature (T0) of the raw material liquid is within 3° C.
- 11. (original) A method according to claim 4, wherein the heating or cooling is performed by a heat exchanger.
- 12. (original) A method according to claim 4, wherein the heating or cooling is performed based on the result that a temperature of the entrance place in the column is measured.
- 13. (currently amended) A method according to claim 45, wherein a-the temperature of the raw material liquid to be fed to the column is lower than that of a bottom part in the column.
- 14. (currently amended) A method according to claim—1_5, wherein the raw material liquid is divided into two or more separate streams, and then fed to the distillation column.
- 15. (currently amended) A method according to claim—1_5, wherein the collection agent is water or a process wastewater.
- 16. (previously amended) A method according to claim 1, wherein the raw material liquid is distilled employing an azeotropic solvent to separate the collection agent therefrom.
- 17. (original) A method according to claim 16, wherein the azeotropic solvent is at least one selected from the group consisting of diethyl ketone, methyl propyl ketone, methyl isobutyl ketone, methyl-t-butyl ketone, n-propyl acetate, toluene, heptane, and methylcyclohexane.
- 18. (currently amended) A method according to claim—1_5, wherein the <u>distillation</u> column is maintained under the following conditions:

Operation pressure: 10 to 400 hPa

Top temperature of the column: 45° C to 110° C

Temperature at which the raw material liquid is fed to the entrance place in the column: 40° C to 120° C

Bottom temperature: 50° C to 190° C

Reflux ratio: 0.1 to 5.